

Title (en)
Deflector apparatus

Title (de)
Deflektorvorrichtung

Title (fr)
Appareil défecteur

Publication
EP 2711254 A3 20150114 (EN)

Application
EP 13185745 A 20130924

Priority
JP 2012209141 A 20120924

Abstract (en)
[origin: EP2711254A2] A deflector apparatus (1) for regulating air flows at a rear of a vehicle includes a movable portion (11) arranged at a rear of a roof panel (RP) and an upper of a rear window (RW) of a vehicle and extended in a vehicle width direction. The movable portion (11) is movable to increase and decrease a protrusion amount of a front end portion of the movable portion (11) in a vehicle front-rear direction from an upper surface of the roof panel (RP) to upward. The deflector apparatus further includes a driving system (20) for driving the movable portion (11) to decrease (increase) the protrusion amount as a vehicle speed increases (decreases) to decrease (increase) an amount of air introduced by the movable portion (11) and flowing along the rear window (RW).

IPC 8 full level
B60S 1/58 (2006.01); **B62D 35/00** (2006.01)

CPC (source: EP US)
B60S 1/58 (2013.01 - EP US); **B62D 35/007** (2013.01 - EP US); **Y02T 10/82** (2013.01 - EP US)

Citation (search report)

- [A] US 4174863 A 19791120 - GOTZ HANS [DE]
- [A] DE 102011011102 A1 20120119 - DAIMLER AG [DE]
- [A] US 2001017479 A1 20010830 - BIRNDORFER ROBERT [DE], et al
- [A] EP 0110232 A1 19840613 - FIAT AUTO SPA [IT]
- [A] DE 3900405 A1 19890727 - VOLKSWAGEN AG [DE]
- [A] US 4810022 A 19890307 - TAKAGI MICHITOSHI [JP], et al

Cited by
WO2017046518A1; DE102018213770A1; US11383772B2; CN114834544A; FR3040970A1; CN108137104A; GB2545046A; GB2528926B; GB2545046B; WO2016020423A1; US10604198B2; WO2018060562A1; WO2018109310A1; US10293870B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 2711254 A2 20140326; EP 2711254 A3 20150114; EP 2711254 B1 20170412; JP 2014061836 A 20140410; JP 6004175 B2 20161005; US 2014084626 A1 20140327; US 8998294 B2 20150407

DOCDB simple family (application)
EP 13185745 A 20130924; JP 2012209141 A 20120924; US 201314034120 A 20130923